

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Currently amended) A continuously variable transmission comprising:
a cone shaped member having a shaft centrally positioned therethrough, said cone shaped member comprising a plurality of radially extending wings;
said cone shaped member being slidably moveable axially with respect to said drive shaft;
a ring gear encircling said cone shaped member, said ring gear in interlocking communication with said cone member;
said ring gear enclosed by a housing and pivotable about a fixed point; and
a plurality of linkage arms, each said linkage arm pivotally connected to said radially extending wing and each said linkage arm pivotally connected to ~~said~~ a joining member.
2. (Original) A continuously variable transmission as in Claim 1 wherein each said radially extending wing comprises a ledge portion for receiving said linkage arm, and each said linkage arm comprises a slider member for slidably engaging said ledge.
3. (Currently amended) A continuously variable transmission as claimed in Claim 1 wherein said plurality of radially extending wings ~~comprise~~ comprises at least five radially extending wings.
4. (Original) A continuously variable transmission as claimed in Claim 1 wherein said each said linkage arm comprises a first strut and a second strut parallel to said first strut.
5. (Currently amended) A continuously variable transmission as in claim 2, wherein each said slider member comprises:

a first clamp and opposing second clamp for slidably contacting said ledge of said radially extending wing;

a worm gear for engaging said cone member with said ring gear; and

an axle extending from said first clamp to said second clamp ~~and~~, for supporting said worm gear and allowing for rotation of said worm gear.

6. (Currently amended) A continuously variable transmission as claimed in Claim 4 wherein ~~each~~ said cone member comprises a central bore for receiving said drive ~~shaft~~, shaft; and said joining member comprises a plurality of extension joining arms, each said ~~extension~~ joining arm having at least one receptacle for pivotally receiving at least one of said linkage arms.

7. (Currently amended) A continuously variable transmission comprising:
a cone shaped member having a drive shaft centrally positioned therethrough, wherein said cone member comprises a central bore for receiving said drive shaft, said cone shaped member comprising a plurality of radially extending wings;
said cone shaped member being slidably moveable axially with respect to said drive shaft;
a ring gear encircling said cone shaped member, said ring gear in interlocking communication with said cone member;

said ring gear enclosed by a housing and pivotable about a fixed point;
a plurality of linkage arms, each said linkage arm pivotally connected to said radially extending wing[[]] and each said linkage arm pivotally connected to ~~said~~ a joining member comprises a plurality of joining arms, each said joining arm having at least one receptacle for pivotally receiving at least one of said linkage arm;

wherein each said radially extending wing comprises a ledge portion for receiving said linkage arm, and said linkage arm comprises a slider member for slidably engaging said ledge;

wherein said each said linkage arm comprises a first strut and a second strut parallel to said first strut;

wherein said slider member comprises a first clamp and opposing second clamp for slidably contacting said ledge of said radially extending wing;

a worm gear for engaging said cone member with said ring gear; and

an axle extending from said first clamp to said second clamp ~~and~~, for supporting said worm gear and allowing for rotation of said worm gear; ~~and~~,

~~wherein said cone member comprises a central bore for receiving said drive shaft, a plurality of extension arms, each said extension arm having at least one receptacle for pivotally receiving at least one of said linkage arms.~~

8. (Original) A continuously variable transmission as claimed in Claim 2 wherein said joining member is separated from said cone member by a length substantially equal to the length of said ledge member.

9. (Currently amended) A continuously variable transmission as claimed in Claim 1 wherein ~~the~~ a diameter of said joining member equals at least ~~the~~ a minimum obtainable diameter of said cone shaped member.

12. (Original) A continuously variable transmission as in Claim 1 further comprising a means for controllably sliding said cone shaped member horizontally along the axis of said drive shaft.

13. (Original) A continuously variable transmission as in claim 12, wherein said sliding of said cone shaped member results in a proportional angular displacement of said ring gear about said point of pivot.

14. (Original) A continuously variable transmission as in claim 13, wherein said means of controllably sliding comprises a DC motor.

15. (Original) A continuously variable transmission as in claim 13, wherein said means of controllably sliding comprises a servomotor.

16. (Original) A continuously variable transmission as in claim 13, wherein said means of controllably sliding comprises a serpentine belt system.